

Title (en)

Multi-mode analog to digital converter and method.

Title (de)

Mehrmoden-Analog/Digitalwandler und Verfahren.

Title (fr)

Procédé et convertisseur analogique-numérique multimode.

Publication

EP 0564143 A2 19931006 (EN)

Application

EP 93302171 A 19930322

Priority

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Abstract (en)

A multi-mode analog to digital converter (10) is described for converting an analog input into a digital value according to a linear or a companding transfer function. The converter (10) comprises a comparator (32), a successive approximation register (14) and a charge redistribution device (12). The comparator (32) compares the input voltage and a generated voltage. The successive approximation register (14) generates a provisional binary word responsive to the output of the comparator (32). The charge redistribution device (12) generates the generated voltage according to the provisional binary word and to a selected transfer function. The transfer function may be selected from the group consisting of linear and companding. <IMAGE>

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H03M 1/38

IPC 8 full level

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CPC (source: EP US)

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Cited by

EP2388923A1; US8368578B2; WO0019768A1; US6381266B1; US6614839B2; US7173963B2

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